

JP 404158044 A
JUN 1992

(54) MANUFACTURE OF PRINT HEAD FOR INK JET PRINTER

(11) 4-158044 (A) (43) 1.6.1992 (19) JP

(21) Appl. No. 2-283974 (22) 22.10.1990

(71) HOYA CORP (72) KEIICHI YAMAZAKI

(51) Int. Cl. B41J2.16

PURPOSE: To prevent ink from pushed out to an adjacent channel and jetted through an adjacent nozzle by polishing the junction faces of first and second plates of a photosensitive glass so that a specific center line average roughness is achieved and then stacking the first and second plates and fusing them thermally.

CONSTITUTION: A photosensitive glass is cut out into first and second hexagonal plates. An ink sump groove 3, a jet groove 4, a flow-out channel 5 and an ink supply through-hole 6 are formed in the first plate 1 whereas an ink sump through-hole 7 and an ink supply channel 8 are formed in the second plate 2. Average center line roughness (Ra) on one junction face of these plates is set $0.04\mu\text{m}$ or less and that on the other opposing junction face is set in the range of $0.3\text{--}5.0\mu\text{m}$. These plates are then stacked and thermally fused leaving no unfused part between the junction faces.

